TABLE OF CONTENTS

Volume 195

ARTICLES

Special Issue:

SOLAR PHOTO RATES FOR PLANETARY ATMOSPHERES
AND ATMOSPHERIC POLLUTANTS

Guest Editors:
W. F. HUEBNER, J. J. KEADY, and S. P. LYON

Index 291
Introduction 1
Photo Rate Coefficients and Excess Energies 7
References 289
Solar Flux 5
Summary 269

ALABRABA, M. A., A. R. BESTMAN, and A. OGULU / Laminar Convection in Binary Mixture of Hydromagnetic Flow with Radiative Heat Transfer, I 431
ALI, AHSAN and P. K. BHATIA / Gravitational Instability of Partially-Ionized Plasma in an Oblique Magnetic Field 389
BAKAYA, RANJANA, S. A. CHASTI, and R. R. RAUSARIA / On the Role of Reverse Current on the Hard X-Ray Production in Solar Flares and Time-Lags Between High- and Low-Energy Photons 401
BORISSOVA, I. H.R. / Spectral Investigation of some Be Stars for NRP Variability 303
FUSHENG, CHEN and DU JIULIN / Fluctuations in Helium Nuclear Reaction-Diffusion Systems 341
HOGEVEEN, SAKE J. / Determination of the Mass-Ratio Distribution, II: Double-lined Spectroscopic Binary Stars 359
HOPERSKOV, A. V., YU. V. MUSTSEVAYA, and V. V. MUSTSEVOY / Shear-Layer Instabilities in Accretion Discs Around Magnetized Compact Objects 373
JIULIN, DU and CHEN FUSHENG / Stability of Thermonuclear Reaction Affected by Gravitational Force 349
KAFOUSSIAS, N. G. / Temperature Distribution and Heat Loss from a Heated Accelerated Sphere in a Viscous Incompressible Fluid 413
KUNDT, WOLFGANG / Bedded on Pair Plasma 331

OGULU, A., A.R. BESTMAN and M. A. ALABRABA / Laminar Convection in Binary Mixture of Hydromagnetic Flow with Radiative Heat Transfer, II 441

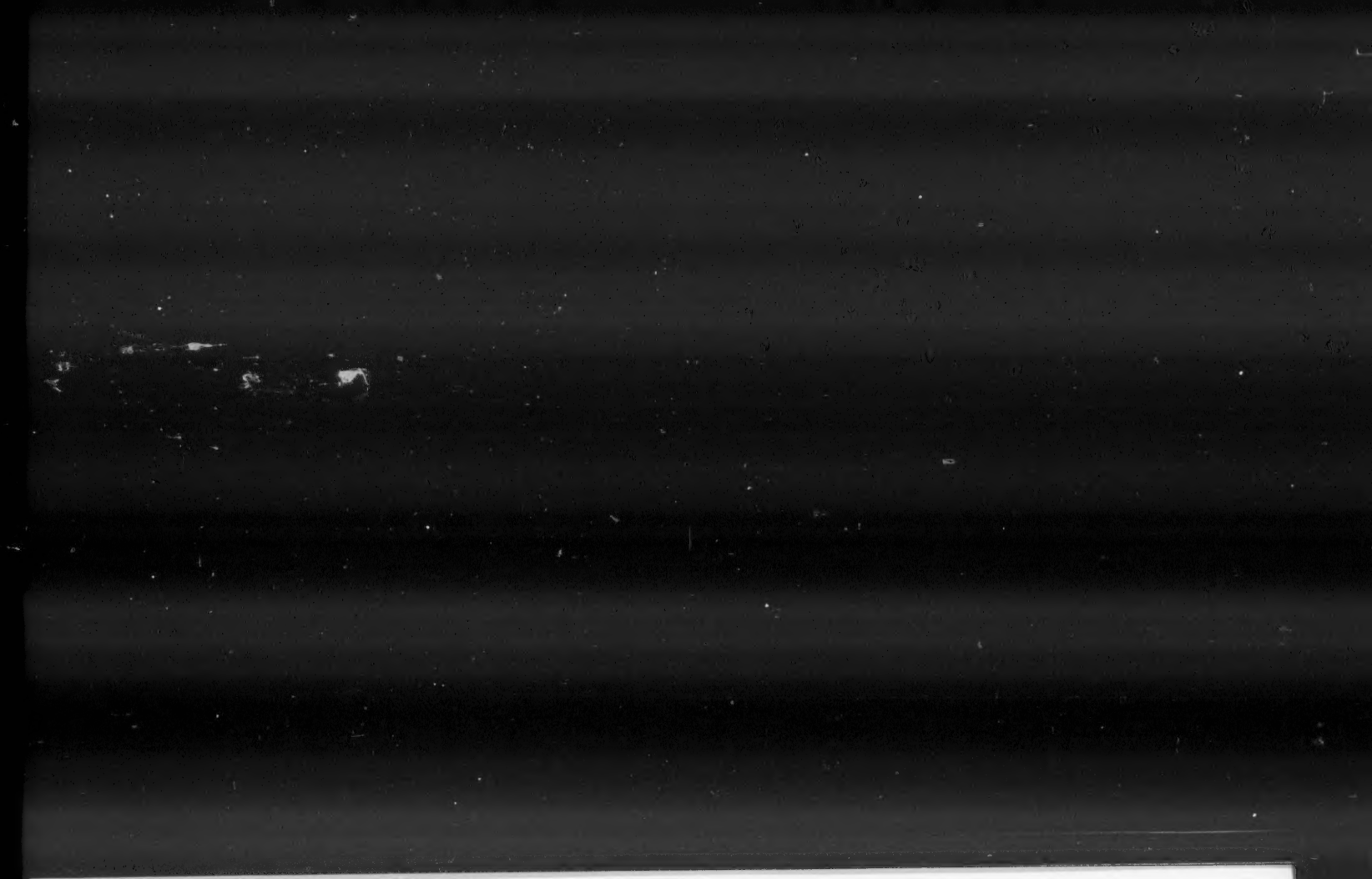
RAM, P. C., S. S. SINGH, and J. K. BITOK / Effects of Hall Current on the Oscillatory MHD Free-Convection Flow 421

SILICH, S. A. / Three-Dimensional Supershells in Differentially-Rotating Galactic Disks 317

ZSCHEEG, H., J. KISSEL, GH. NATOUR, and E. VOLLMER / CoMA - An Advanced Space Experiment for *In Situ* Analysis of Cometary Matter 447

LETTERS TO THE EDITOR

GASANALIZADE, ASGER G. / Possible Semi-Annual Variation of the Newtonian Constant of Gravitation 463

The Use of the "SPACEKAP" Style File for Delivering Manuscripts in LaTeX 297, 467

List of Forthcoming Papers 293, 473